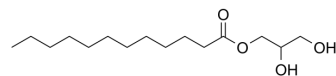


## Monolaurin

<b>Cat. No.:</b>	HY-121620		
<b>CAS No.:</b>	142-18-7		
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>30</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	274.4		
<b>Target:</b>	Bacterial; SARS-CoV		
<b>Pathway:</b>	Anti-infection		
<b>Storage:</b>	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 12.5 mg/mL (45.55 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	3.6443 mL	18.2216 mL	36.4431 mL
5 mM	0.7289 mL	3.6443 mL	7.2886 mL
10 mM	0.3644 mL	1.8222 mL	3.6443 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 1.25 mg/mL (4.56 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: 1.25 mg/mL (4.56 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 1.25 mg/mL (4.56 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Monolaurin (1-Monolaurin) possesses anti-viral and anti-bacterial activity<sup>[1][2]</sup>.

### CUSTOMER VALIDATION

- Patent. US20230149309A1.

---

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

---

- [1]. Harry G Preuss, et al. Minimum inhibitory concentrations of herbal essential oils and monolaurin for gram-positive and gram-negative bacteria. Mol Cell Biochem. 2005 Apr;272(1-2):29-34.
- [2]. Edy Subroto, et al. Bioactive monolaurin as an antimicrobial and its potential to improve the immune system and against COVID-19: a review. Food Research 4(6):2355-2365.
- 

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA